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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE APPLICATION NO. Q66048 9665 09/914,650 02/27/2002 Eric Yijing Zhang EXAMINER 7590 07/19/2004 ALVO, MARC S Sughrue Mion Zinn Macpeak & Seas 2100 Pennsylvania Avenue N W Washington, DC 20037-3213 PAPER NUMBER ART UNIT 1731

DATE MAILED: 07/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	10
		09/914,650	MAGNUSSO	$_{N}$ \mathcal{Q} \mathcal{N})
	Office Action Summary	Examiner	Art Unit	
		Steve Alvo	1731	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
1)[🛛	Responsive to communication(s) filed on 03 N	<u> 1arch 2004</u> .		
2a) <u></u> □	This action is FINAL . 2b) ☑ This	s action is non-fina	l.	
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) 🖂)⊠ Claim(s) <u>1-13</u> is/are pending in the application.			
	4a) Of the above claim(s) is/are withdrawn from consideration.			
	5) Claim(s) is/are allowed.			
	Claim(s) 1-13 is/are rejected.			
-	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.			
o) Claim(s) are subject to restriction and/or election requirement.				
Application Papers				
9)☐ The specification is objected to by the Examiner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
The oath of declaration is objected to by the Examiner. Note the attached Office Action of form P10-152.				
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 				
2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the priority documents have been received in this National Stage				
application from the International Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s)				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)				
3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) 🔲 I	aper No(s)/Mail Date lotice of Informal Patent Application lther:	(PTO-152)

Application/Control Number:

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The term "through at least one refiner, each refiner followed by steam separation and being in series", includes any number of refiners, only two refiners followed by steam separation and with only steam separation existing between refiners" was not disclosed, see Figure 1, refiners 6 and 10 and specification, page 4, lines 24-32. The term "at least one" is broader than the disclosed one or two refiners. The term "or is taken and passed to further stages and in which reductive bleaching agent is the only bleaching agent" is indefinite as it is not clear if the "or" ends with the "further stages" or includes the bleaching agent. A semi-colon should be added after 'further stages;".

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over ADMITTED PRIOR ART (Jepson claim) in view of MADISON et al and GRIMSLEY et al and WEST.

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The ADMITTED PRIOR ART is an implied admission that the subject matter of the preamble is the prior art work of another, see MPEP 2129 III. MADISON et al teaches the bleaching of mechanical pulp in a process similar to the ADMITTED PRIOR ART, wherein the bleaching agent, e.g. hydrosulfites, is added between the last refiner (secondary refiner) and the screen. It would have been obvious to add the bleaching agent of the ADMITTED PRIOR ART between the last refiner and the screening stage as taught by MADISON et al. GRIMSLEY et al teaches when bleaching with hydrosulfites that the access to oxygen should be minimized. It would have been obvious to the artisan when using the reductive bleaching agent of MADISON et al to minimize the access of oxygen as taught by GRIMSLEY et al. It would have been obvious to bleach the pulp under drastic conditions, e.g. a temperature of 150-212 °F (65 to 100 °C as such is taught by WEST, see WEST for adding a chelating agent just prior to the reducing agent. The use of a chelating agent with hydrosulfite bleaching agent would have been obvious from the teachings of WEST to stabilize the hydrosulfite, WEST, column 6, lines 25-28. When more than one refiner is used it would have been especially obvious to use a steam separator after each refiner as WEST teaches venting each of the sump tanks (20 and 28) to the atmosphere to remove the water vapor and air from the pulp (column 3, lines 35-53) to prevent the oxygen from destroying the effectiveness of the reductive bleaching agent (lines 50-53).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steve Alvo whose telephone number is 571-272-1185. The examiner can normally be reached on 5:45 AM - 2:15 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 toll-free).

Steve Alvo Primary Examiner

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